

The economically priced SGJ provides linear position sensing over J1939 CANbus for OEM, mobile equipment and factory automation applications. Designed to withstand IP67 environments, the SGJ is constructed with a rugged polycarbonate body, an extremely durable spring-loaded stainless steel measuring cable and a stainless steel mounting bracket. For the OEM, customized options are available.

Ordering Information:

w/o terminating resistor



SGJ Cable Actuated Sensor Industrial • CANBus J1939

Two Available Stroke Ranges: 0-80 in & 0-120 in. Rugged Polycarbonate Enclosure • Simple Installation Compact Design • Built for IP67 environments IN STOCK FOR QUICK DELIVERY!

Specifications

- Stroke Range Options Accuracy Repeatability Resolution Input Voltage Input Current Measuring Cable
- Measuring Cable Tension 80-inch 120-inch Maximum Acceleration Sensor Cycle Life Electrical Connection Enclosure Environmental Operating Temperature Weight, 80-inch (w/o bracket) Weight, 120-inch (w/o bracket)

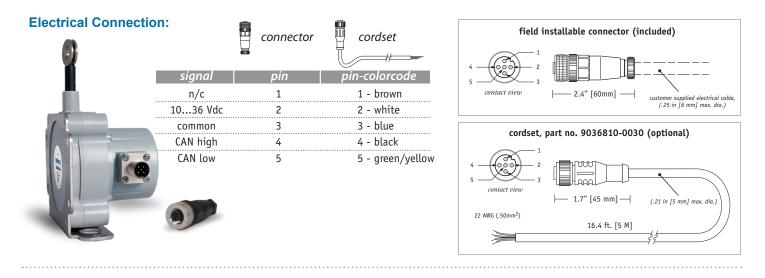
CANbus SPECIFICATIONS

Communication Profile Protocol Node ID

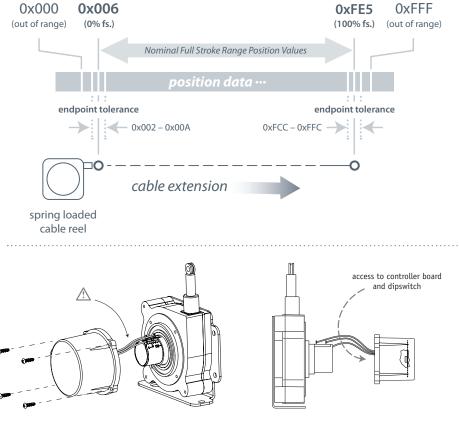
Baud Rate Options Data Rate Options Termination Resistor 80 in. (2032 mm), 120 in. (3048 mm) .5% FS. .05% FS. 12-bit 10-36 VDC 100 mA, max. .019-inch dia. nylon-coated stainless steel

14 oz. $(3,9 \text{ N}) \pm 30\%$ 9 oz. $(2,5 \text{ N}) \pm 30\%$ 10 g plastic-hybrid precision potentiometer $\ge 250,000$ M12 connector (mating plug included) glass-filled polycarbonate IP 67 -40° to 185° F (-40° to 85° C) .6 lbs (272 g) 1 lb. (454 g)

CANbus SAE J1939 Proprietary B Adjustable via dipswitch (0-63), default set to 0 125K (default), 250K, 500K, 1M 5ms (default), 20ms, 50ms, 100ms See Ordering Information



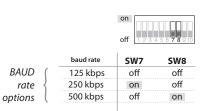
Position Data Overview:



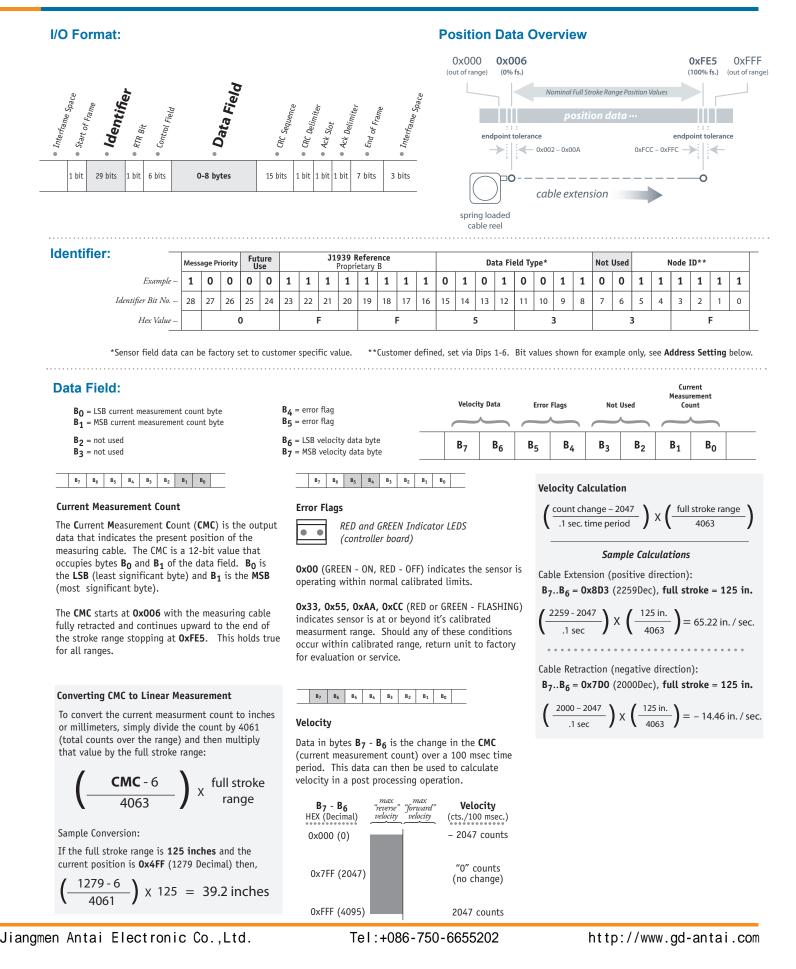
Baud, Node ID and Data Rate:

Baud Rate, Node ID and Data Rate settings are set via dip switch found on the internal controller board. To gain access to the controller board, remove the 4 cover attaching screws and carefully separate the sensor cover from the main body. Be careful not to damage the small gage wires that connect the potentiometer to the controller board mounted directly to the rear cover.

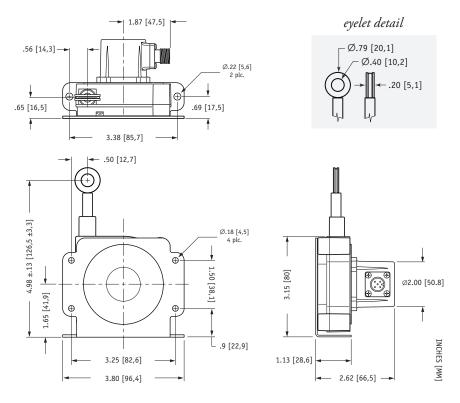
Follow the instructions below for desired settings and reinstall sensor cover.



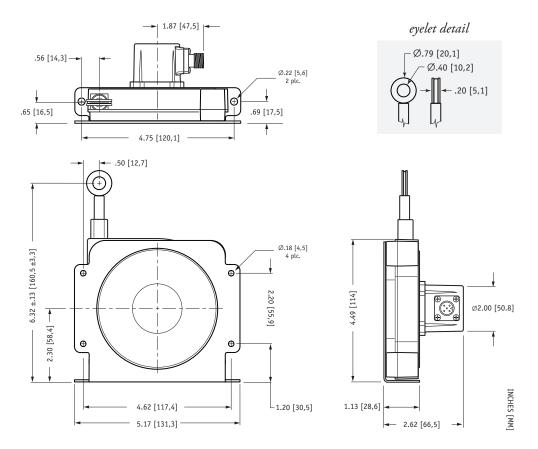
											on off 1234	5 6 7 8 9 10
	on				node ID		SW1	SW2	SW3	SW4	SW5	SW6
off 12345678910					Dec. Hex	Hex	(2 ⁰)	(2 ¹)	(2 ²)	(2 ³)	(24)	(2 ⁵)
				(0	0x00	off	off	off	off	off	off
	Data Rate	SW9	SW10	nadalD	1	0x01	on	off	off	off	off	off
Data Rate options				node ID	2	0x02	off	on	off	off	off	off
	5 ms	off	off	options 0–63	3	0x03	on	on	off	off	off	off
	20 ms	on	off									
	50 ms	off	on	(0x00–0x3F)		0x3E					on	
	100 ms	on	on	l	63	0x3F	on	on	on	on	on	on



80-inch SGJ-80-4 w/ Mounting Bracket:



120-inch SGJ-120-4 w/ Mounting Bracket:



Mounting Options:

Changing Measuring Cable Exit and Electrical Connector Direction:

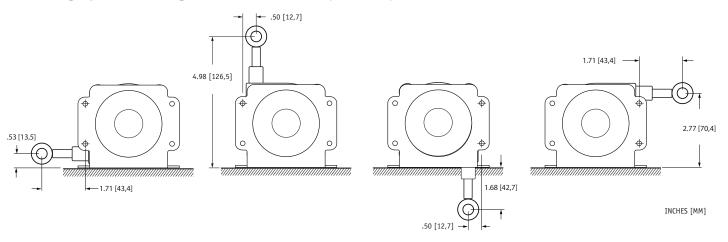
For the ultimate in flexibility, the measuring cable exit direction and the direction of the electrical connector can be rotated around in 90° increments to accommodate just about any installation requirement.

To change measuring cable exit direction, simply remove the 4 mounting bracket screws, rotate the bracket to desired position and replace the screws.

To change the direction of the electrical connector, remove the 4 sensor cover screws and carefully remove the sensor cover just far enough to separate the

cover from the main body. Be careful of the three small gage wires that attach the internal controller board to the potentiometer.

Mounting Option Mounting Dimensions • 80-inch (SGJ-80-4):



Mounting Option Mounting Option Dimensions • 120-inch (SGJ-120-4):

